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(NASA-CR-90745) ALSEP OPERATIONS AT KSC
(Bellcomm, Inc.) 6 p

N79-71991

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SUBJECT: ALSEP Operations at KSC -
Case 320

DATE: October 23, 1967

FROM: L. G. Miller

MEMORANDUM FOR FILE

A work session on ALSEP operations at KSC took place at the Kennedy Space Center on October 3-4, 1967. Although it was originally intended that an LM fuel cask and capsule installation feasibility investigation take place, the exercise was canceled due to a lack of mock-up hardware and interference between the SEQ* door and the SLA.

A large portion of the first day was devoted to identification of GSE items, availability dates, configuration and status. The GSE for the Parachute Building, MSOB, Launch Pad and Pyrotechnic Test Area was discussed separately. In general, (and this characterized the tone of the entire meeting) there was a tendency to say that the GSE would be available to support a KSC need-date of February 19, 1968. This would allow two months to make ready for shipment of the first operational ALSEP. It was noted, however, that some of the GSE had not yet been designed, that there was some question on the validity of existing hardware delivery dates and some confusion as to which missions would fly with the ALSEP D2 model (i.e. Bendix mass simulator). The situation is mitigated by an almost certain extension of the existing official hardware delivery dates. Thus, with the exception of the few areas where design effort is necessary, most of the GSE is available or has an availability date which complements tentative mission schedules.

Bendix submitted a number of charts relating to time phasing of ALSEP D2 model installation. The charts, which are to be reviewed by members of the working group, are attached. There is no KSC facility impact for the D2 model, and facility requirements for the operational ALSEP are being pursued in a satisfactory manner.

Discussions took place regarding differences in the four scheduled Integrated Systems Tests. There is some consideration being given to reducing the number to three.

*Scientific Equipment Bay

Finally, MSC asked Bendix, GAEC and AEC personnel to develop a detailed plan for handling of the ALSEP package from arrival at KSC until launch. As a goal, the plan should attempt to minimize the number of persons requiring specialized operational training in mechanical and nuclear safety procedures.

Complete minutes of the working session, including test data handling plans, should be available within the next month.

L. G. Miller
L. G. Miller

2032-LGM-gmp

Attachment

ALSEP D2 Model Test Flow Into Spacecraft

Copies to

Messrs. E. P. Andrews - NASA/MLA
R. E. Culbertson - NASA/MLA
L. E. Day - NASA/MAT
J. H. Disher - NASA/MLD
J. A. Edwards - NASA/MLO
J. K. Holcomb - NASA/MAO
T. A. Keegan - NASA/MA-2
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ALSEP D2 MODEL TEST FLOW INTO SPACECRAFT

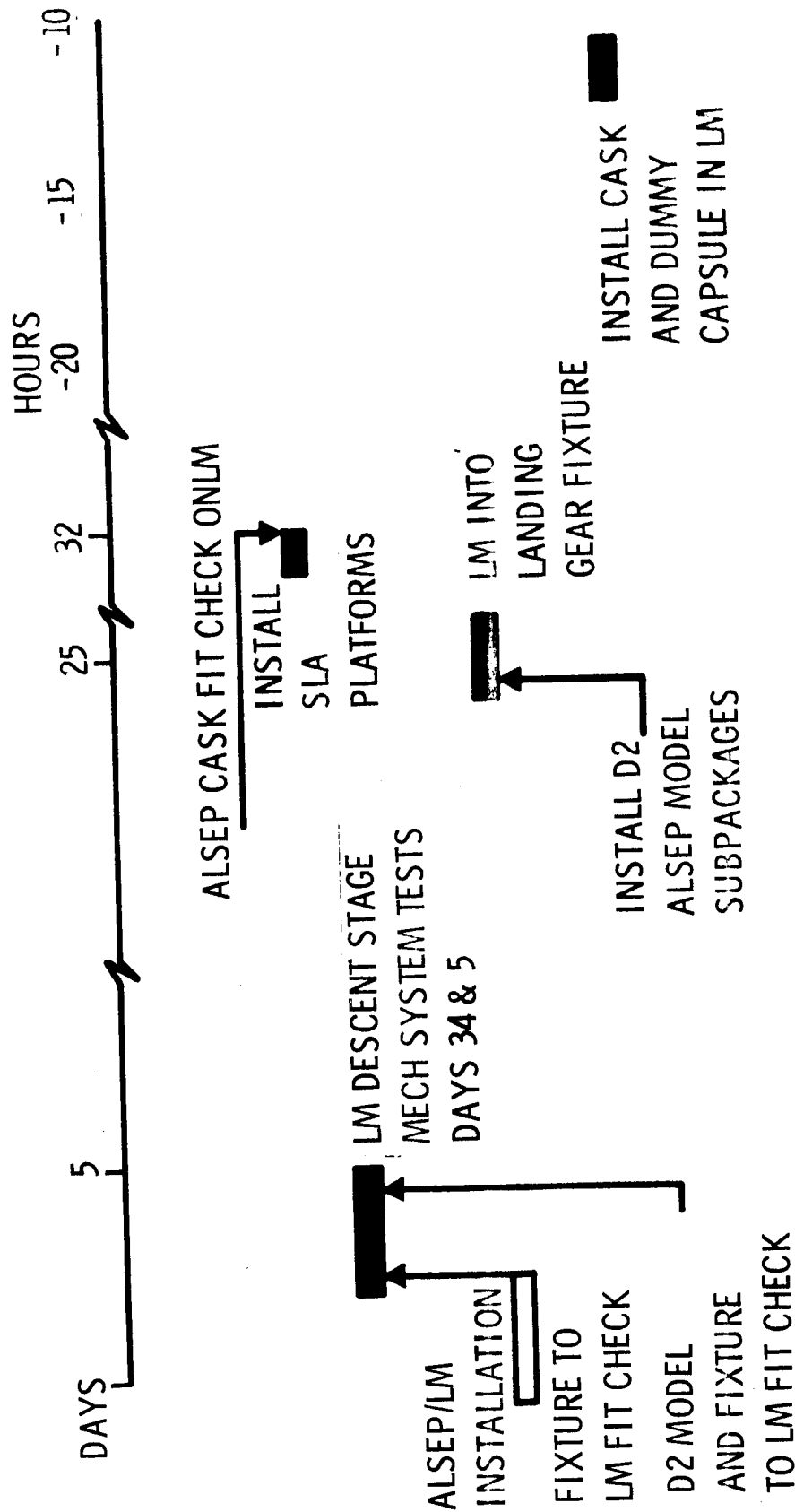


Fig 22

* Handling fixture installed at BxA

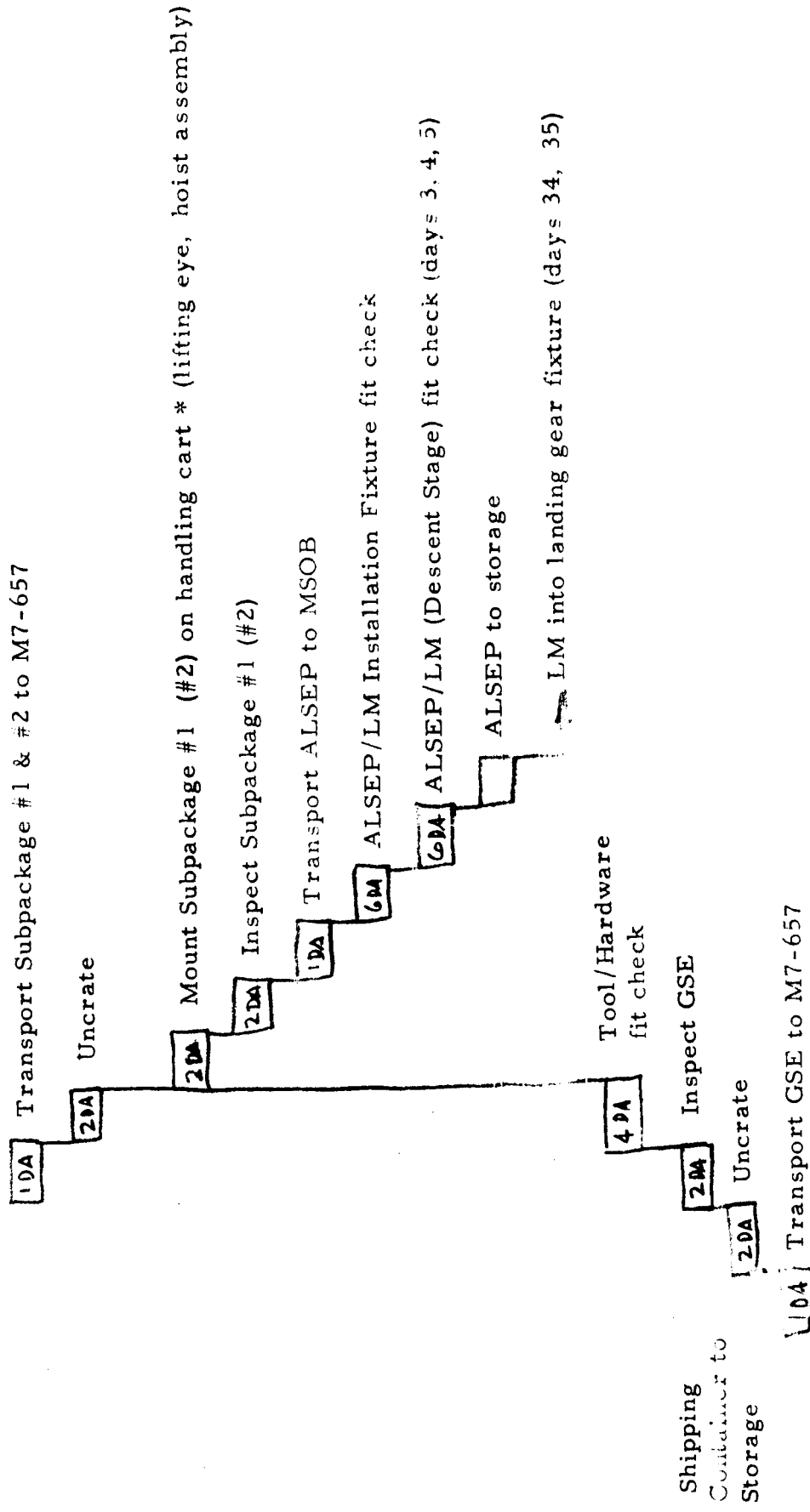
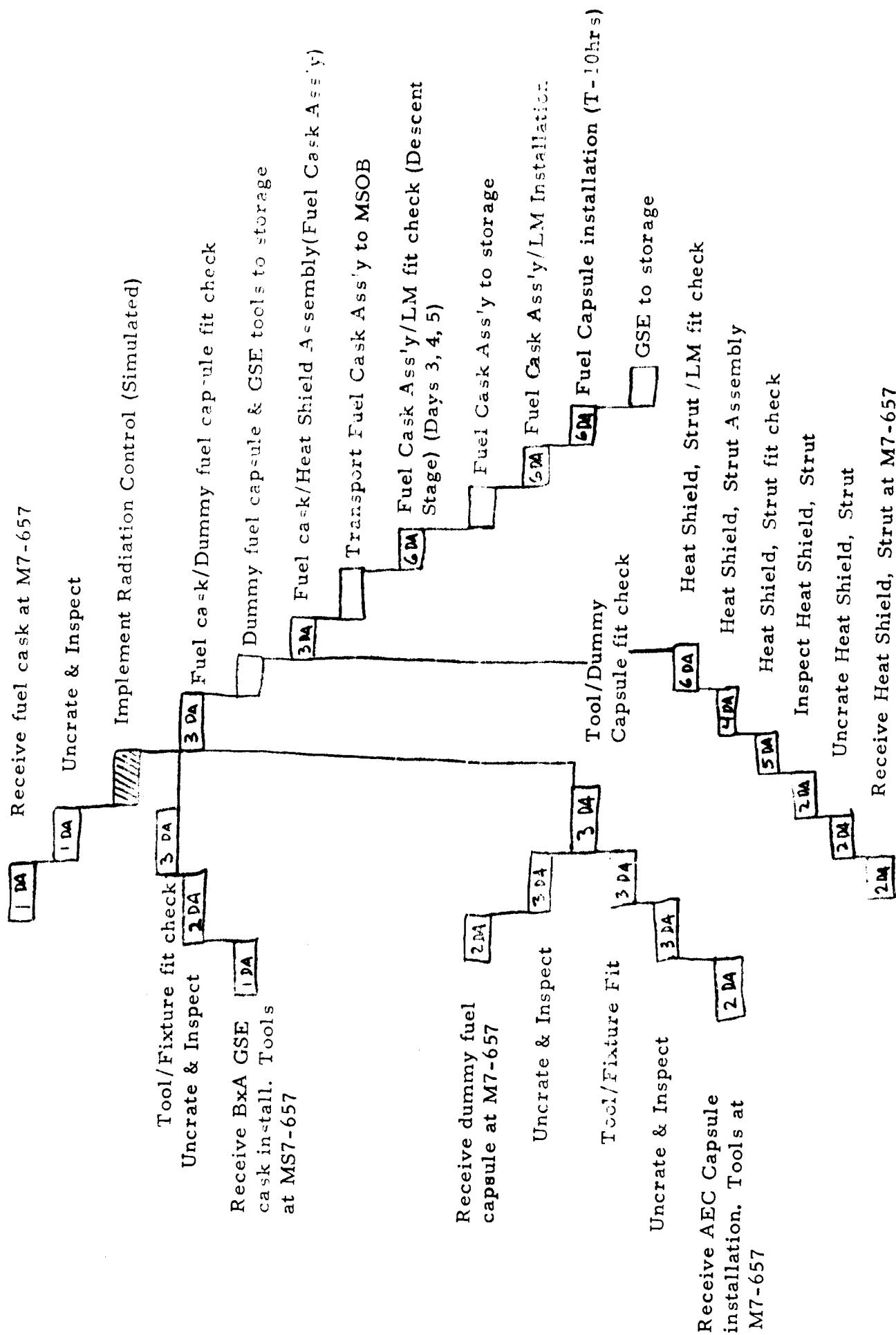


Figure 1 KSC Operations (SH 1 of 2)

D2 ALSEP Flow



Note: Flow is for uninterrupted operations from receiving to installation. In the event of schedule adjustments, flight equipment can be transported to bonded stores after any function except final installation on LM.

Figure 2. KSC Operations (Sh. 2 of 2)
D2 Fuel Cask/Dummy Fuel Capsule Flow.